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1652

RAW SEQUENCE LISTING DATE: 08/31/2000
 PATENT APPLICATION: US/09/383,318A TIME: 11:01:01

Input Set : A:\sequence.txt
 Output Set: N:\CRF3\08312000\I383318A.raw

4 <110> APPLICANT: Belghith, Karima Sarih
 5 Mezghani, Monia
 6 Ellouz, Radhouane
 7 Bejar, Samir
 10 <120> TITLE OF INVENTION: Polypeptides Having Glucose Isomerase
 Activity and Nucleic Acids Encoding Same
 15 <130> FILE REFERENCE: 6004.200-US
 17 <140> CURRENT APPLICATION NUMBER: US 09/383,318A
 18 <141> CURRENT FILING DATE: 1999-08-26
 20 <150> PRIOR APPLICATION NUMBER: SN 99.100
 21 <151> PRIOR FILING DATE: 1999-05-26
 23 <160> NUMBER OF SEQ ID NOS: 7
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 1546
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Streptomyces
 32 <400> SEQUENCE: 1
 33 caccagcgcc ttgtggact ggggtggacg gtcacacccg acgacgaggc ggaccctcg 60
 34 ctgctgacat cggctctccc tcttttccc ggctcagggg ctctgacctg cggcttcacg 120
 35 ctatgcggg cctgtggcc cgggggtgcg gaccggggcc gcggcgggttc tgcttccgcg 180
 36 ttcccttccc aggacgcgc tcggcatac aatttgtaaa tcggccgtac gaaatagtcg 240
 37 caagcggaca aggacccgcg gcatgacta ccggccacc cccgaggaca ggttcacct 300
 38 cggcctgtgg accgtcgctt ggcaggggcg ggaccccttc ggcgacgcca cgcgtccgc 360
 39 cttcgacccg gtgcacgtgc agcggctggc cgaactgggc gcctacggag tgaccctcca 420
 40 cgacgacgac ctgatccct tcggggcgc cgacacccgg cgcgaggcgc acgtcaagcg 480
 41 gtccgtcag gcgcgtcagc cgacccgcgat gaccgttccg atggccacca ccaacccctt 540
 42 caccaccc gtttcaagg caggcgcgtt caccgcacac gaccgcgcag tgccgcgtt 600
 43 cggcctgcgc aagacccatcc ggaacatcgat tctgcgggtc gagctgggcgc ccaaggctca 660
 44 cttcgccctgg ggccggccgcg aggccgcggg tgcgggtgc gccaaggacg tgctggggc 720
 45 cttggacccg atgaaaggagg ctttcgcact gtcggcggag ttcgcgttccct cgcaggctca 780
 46 cgacatccgg ttccgcatcg agcccaagcc gaacgaggccg cgccggcgcata tcctgcgtcc 840
 47 caccatccgc cacgcgcctcg ctttcgcatcg ggcgcgtggag cgcccccgcgc tgtaacgggt 900
 48 caaccccgag gtggggccacg agcagatggc cggcgtgaat ttcccgacg gcatcgccca 960
 49 ggctctgtgg gggggcaaggc tttccacat cgaccccaac ggccgtccg gcatcaagta 1020
 50 cgaccaggac ctgcgcgtcg gcgcgggtga cttcgccgc gccttcgtgc tggtcgaccc 1080
 51 gctggagacg gccggctggg agggtccgcg ccacttcgcac tcacggccccc cgccggaccga 1140
 52 ggacatcgac ggcgtgtggg cttccgcggc cgggtgcgtc cgcaactacc tgatccctgaa 1200
 53 ggagcgcgcgc gccgcctcc gtcgcgcaccc ggagggtcccg gagggcctgc tgccgcggcc 1260
 54 gtcgcacccat ctcgcgcgc ccacccggc gcacggccctgc cggccctgc tgccgcggcc 1320
 55 caccgcgtac gaggacttcg acgtggacgc ggcgcgcgc gcacggccctgc tggccgcggcc 1380
 56 cgaccaggatc gccatggacc acctgtgtggg cggccgcgc tgaacccggc gacgagggggg 1440
 57 tacgcgcgtt cgatccctcg ggcgtgcacat gaggggggtgc tggccggctc gaggccggccc 1500
 58 ggcccccattcg tgctgcgtct cccggggcgc ggtgtggggc gctgtc 1546
 60 <210> SEQ ID NO: 2
 61 <211> LENGTH: 386
 62 <212> TYPE: PRT

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63 <213> ORGANISM: Streptomyces
 65 <400> SEQUENCE: 2
 66 Met Asn Tyr Gln Pro Thr Pro Glu Asp Arg Phe Thr Phe Gly Leu Trp
 67 1 5 10 15
 68 Thr Val Gly Trp Gln Gly Arg Asp Pro Phe Gly Asp Ala Thr Arg Pro
 69 20 25 30
 70 Ala Leu Asp Pro Val Asp Val Gln Arg Leu Ala Glu Leu Gly Ala Tyr
 71 35 40 45
 72 Gly Val Thr Phe His Asp Asp Asp Leu Ile Pro Phe Gly Ala Ser Asp
 73 50 55 60
 74 Thr Glu Arg Glu Ala His Val Lys Arg Phe Arg Gln Ala Leu Asp Ala
 75 65 70 75 80
 76 Thr Gly Met Thr Val Pro Met Ala Thr Thr Asn Leu Phe Thr His Pro
 77 85 90 95
 78 Val Phe Lys Ala Gly Ala Phe Thr Ala Asn Asp Arg Ala Val Arg Arg
 79 100 105 110
 80 Tyr Ala Leu Arg Lys Thr Ile Arg Asn Ile Asp Leu Ala Val Glu Leu
 81 115 120 125
 82 Gly Ala Lys Val Tyr Val Ala Trp Gly Gly Arg Glu Gly Ala Glu Ser
 83 130 135 140
 84 Gly Ala Ala Lys Asp Val Arg Ala Ala Leu Asp Arg Met Lys Glu Ala
 85 145 150 155 160
 86 Phe Asp Leu Leu Gly Glu Tyr Val Thr Ser Gln Gly Tyr Asp Ile Arg
 87 165 170 175
 88 Phe Ala Ile Glu Pro Lys Pro Asn Glu Pro Arg Gly Asp Ile Leu Leu
 89 180 185 190
 90 Pro Thr Ile Gly His Ala Leu Ala Phe Ile Glu Arg Leu Glu Arg Pro
 91 195 200 205
 92 Glu Leu Tyr Gly Val Asn Pro Glu Val Gly His Glu Gln Met Ala Gly
 93 210 215 220
 94 Leu Asn Phe Pro His Gly Ile Ala Gln Ala Leu Trp Ala Gly Lys Leu
 95 225 230 235 240
 96 Phe His Ile Asp Leu Asn Gly Gln Ser Gly Ile Lys Tyr Asp Gln Asp
 97 245 250 255
 98 Leu Arg Phe Gly Ala Gly Asp Leu Arg Ala Ala Phe Trp Leu Val Asp
 99 260 265 270
 100 Leu Leu Glu Ser Ala Gly Trp Glu Gly Pro Arg His Phe Asp Phe Lys
 101 275 280 285
 102 Pro Pro Arg Thr Glu Asp Ile Asp Gly Val Trp Ala Ser Ala Ala Gly
 103 290 295 300
 104 Cys Met Arg Asn Tyr Leu Ile Leu Lys Glu Arg Ala Ala Ala Phe Arg
 105 305 310 315 320
 106 Ala Asp Pro Glu Val Gln Glu Ala Leu Arg Ala Ala Arg Leu Asp Gln
 107 325 330 335
 108 Leu Ala Glu Pro Thr Ala Ala Asp Gly Leu Gln Ala Leu Leu Ala Asp
 109 340 345 350
 110 Arg Thr Ala Tyr Glu Asp Phe Asp Val Asp Ala Ala Ala Arg Gly Met
 111 355 360 365
 112 Ala Phe Glu Arg Leu Asp Gln Leu Ala Met Asp His Leu Leu Gly Ala

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113 370 375 380
114 Arg Gly
115 385
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 13
119 <212> TYPE: PRT
120 <213> ORGANISM: Streptomyces olivochromogenes
122 <400> SEQUENCE: 3
123 Asp Gly Gly Phe Thr Ala Asn Asp Arg Asp Val Arg Arg
124 1 5 10
126 <210> SEQ ID NO: 4
127 <211> LENGTH: 13
128 <212> TYPE: PRT
129 <213> ORGANISM: Streptomyces violaceoniger
131 <400> SEQUENCE: 4
132 Asp Gly Gly Phe Thr Ala Asn Asp Arg Asp Val Arg Arg
133 1 5 10
135 <210> SEQ ID NO: 5
136 <211> LENGTH: 13
137 <212> TYPE: PRT
138 <213> ORGANISM: Actinomycetes missouriensis
140 <400> SEQUENCE: 5
141 Asp Gly Gly Phe Thr Ser Asn Asp Arg Ser Val Arg Arg
142 1 5 10
144 <210> SEQ ID NO: 6
145 <211> LENGTH: 13
146 <212> TYPE: PRT
147 <213> ORGANISM: Ampulariella sp.
149 <400> SEQUENCE: 6
150 Asp Gly Gly Phe Thr Ser Asn Asp Arg Ser Val Arg Arg
151 1 5 10
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 13
155 <212> TYPE: PRT
156 <213> ORGANISM: Thermus thermophilus
158 <400> SEQUENCE: 7
159 Asp Gly Ala Phe Thr Ser Pro Asp Pro Trp Val Arg Ala
160 1 5 10

VERIFICATION SUMMARY DATE: 08/31/2000
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